CDF Operations Summary

Steve Hahn
February 3, 2005

Good luck with luminosity; not-so-good luck with the detector

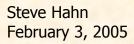| Store	Start	Stop	hours	InitL	Deliv	LiveLumi	Premium blend ~~Good~~	Silicon
3956	2005.02.01-22:56	2005.02.03-07:47	32.8	102.3	4,410.8	3,571.1 81.0%	2,548.1 57.8%	2,548.1 57.8%
3953	2005.01.31-08:18	2005.02.01-11:48	27.5	91.9	3,661.4	3,024.2 82.6%	156.2 4.3%	156.2 4.3%
3952	2005.01.29-20:07	2005.01.31-04:52	32.7	114.9	5,052.3	4,265.2 84.4%	4,257.5 84.3%	4,257.5 84.3%
3950	2005.01.28-11:03	2005.01.29-14:49	27.8	100.3	3,809.7	2,875.8 75.5%	2,512.4 65.9%	2,405.0 63.1%
3948	2005.01.27-02:00	2005.01.28-03:47	25.8	76.0	3,327.2	2,185.8 65.7%	1,813.9 54.5%	1,772.9 53.3%

CEM HV ✓

SMX, but…

Studies throughout to understand high busy deadtime & implement DSP code v67, Pulsar, inhibit GUI debugging, and CSL pointer space

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- ☛ Store 3948 (Thursday)
  - ➤ Begin with clock crate scare; Steve Chappa finds fanout selector module hanging up backplane
  - ➤ This causes some problems with TDCs (for muon trigger) and SMX once data-taking starts
  - ➤ Mostly quiet, but problems with CMP/CMX trips
- ☛ Store 3950 (Friday)
  - ➤ Store starts with RF1 station lost, but silicon returns soon after
  - ➤ At start, deadtime as high as 25%
  - ➤ Four Gamma HV supplies adjusted
- ☛ Store 3952 (Sunday)
- ☛ Store 3953 (Monday)
  - ➤ Deadtime at worst 18% after F. Chlebana swaps VRB14 before this run
- ☛ Store 3956 (Tuesday)
  - ➤ Long run 193111 (2.11 nb-1) marked bad due to SMX LUT table failure (beam losses?) at end; definite candidate for recovering much lum with run sections
  - ➤ Last night, replaced SW CEM Gamma with new Gamma–drifting 5-10 V continuously

CDF Offline Summary

Steve Hahn
February 3, 2005

☛ Data processing and calibration status
  ➤ Raw data processing:
    ➔ Last processed run (as of 2/3/2005, 10:00AM): run 193032 (1/30/2005)
  ➤ Calibrations status:
    ➔ 10A (used by BeamExe):   up to 193109 (2/2/2005), but some runs are skipped. looking into it
    ➔ 11A (used by ProductionExe): up to 193032 (1/30/2005)

☛ Software development
  ➤ The latest release, 6.1.0pre3, is now being validated. We are hoping that the next release is going to be the "final" 6.1 release and used for data processing.
  ➤ A small JET50 sample was processed with this version. The high-Pt b-tagging group is validating.
    ➔ When this JET50 sample was processed, about 10% of jobs crashed due to the corrupted COTD bank version number. The code is now fixed to prevent crashes
  ➤ We processed a test run (193067) taken with the new DSP code two days ago
    ➔ All jobs ran without crashes.
    ➔ The basic tracking parameters in this test run look OK.
    ➔ Now, trying to understand some errors seen both in L3 and Production.